CONSERVATION

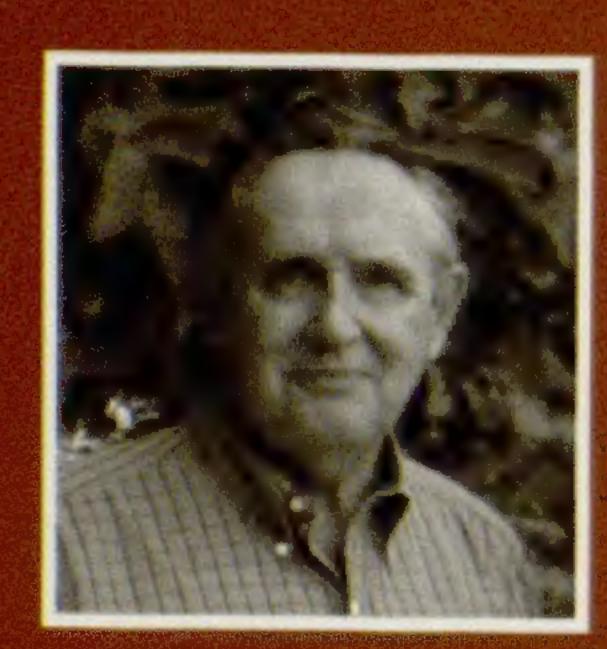


ARBORETURA MEMBERS' MAGAZINE

Issue 10, July, August, September 2007

MESSAGE FROM THE BOARD

C. Arnell Huider, M.D. President



In this issue we are highlighting some of our conservation efforts.

I would like to expand on that a little because, when you think about it, much of what we do

important issue we deal with is Water. We limit watering far more stringently than the home gardener. We use tons of mulch from our trimmings to limit soil evaporation and we encourage the use of xeroscape and drought tolerant plants. Our general plan is finished now and will include the removal of our very wasteful fountains. The loss of their dappled light through the trees and the sound of their play will be hard for us, but saving water will be much more important. Later, in concert with the Los Angeles County initiatives, we may have to make even more changes:

We are a conservator of plants and trees. We have many large, unusual species that represent many parts of the world. Often these are very large specimens, inappropriate or difficult to grow in the home garden or in parks or on streets.

They can only be seen in their full splendor in

arboreta.

Similarly, we conserve genetic variations in collections of rare plant species and seeds. We encourage societies of people interested in rare or special plants and often serve as a venue for their meetings and shows. We welcome the local meetings of the Garden Conservancy, an organization which seeks to conserve whole gardens created by great landscape designers.

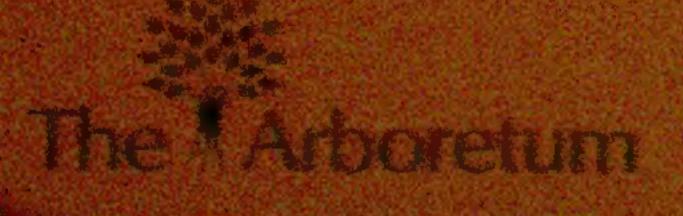
We are an advocate and source of information for the home gardner. Conservation begins at home and many of our courses stress ways to help. We are redoing the Volunteer's Garden for All Seasons which will help with demonstrations.

And there is much more. We conserve a great collection of garden books in the library. We conserve open space as The Arboretum serves as parkland for our visitors. We conserve our unique historic structures which are a part of our California heritage and which would be long gone without constant upkeep. We are finishing an evaluation of the Adobe and soon can begin design and reconstruction (and as we are reminded, the sooner the better).

As you can see, Conservation is a big issue here. We can always use some help if you find some loose time or loose money on your hands.

The Arboretum's mission is to cultivate our natural, horticultural and historic resources for learning, enjoyment and inspiration.

Our vision is to be one of the world's truly great arboretums and botanic gardens-the garden which best reflects Southern California's distinct climate, community and openness to new ideas.



LOS ANGELES ARBORETUM FOUNDATION

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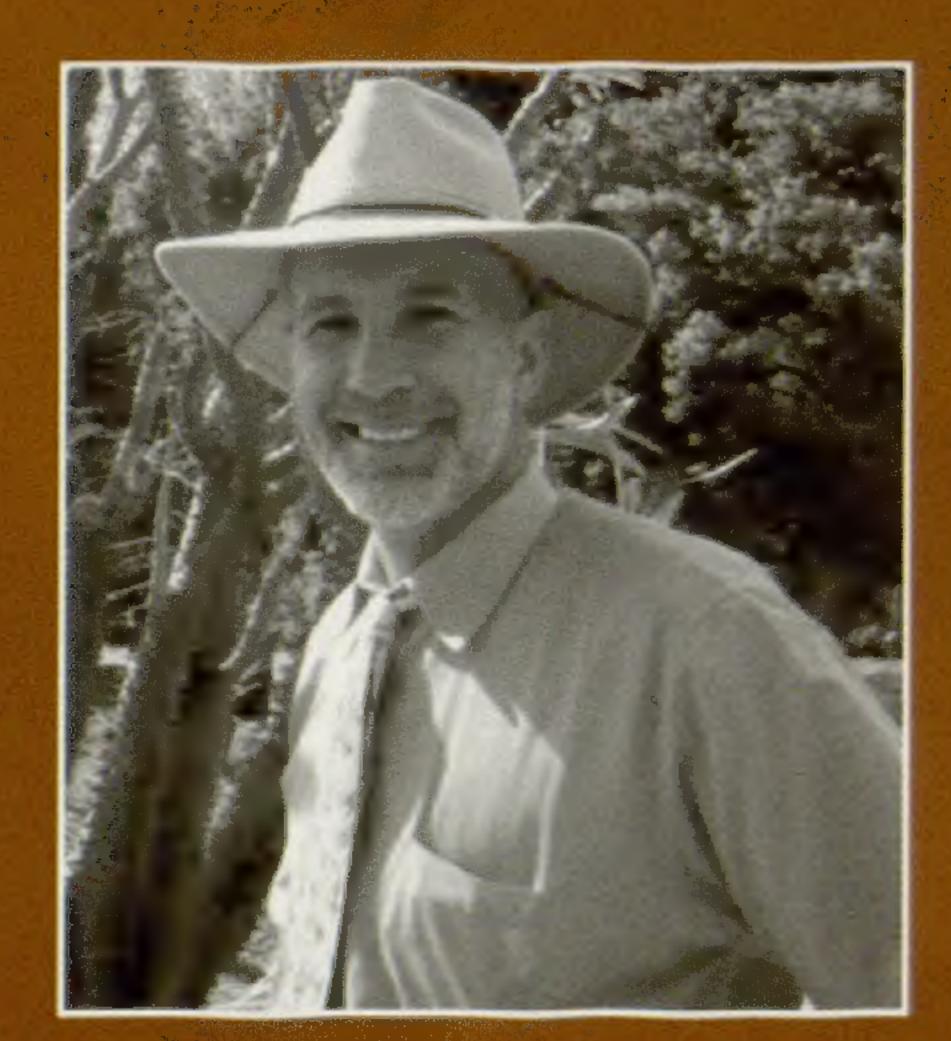
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DEAR ARBORETUM MEMBERS

Mark K. Wourms, Ph.D., CEO



hange is in the air. Not only is the scientific community calling for rapid steps to slow global warming, but there is also a growing worldwide political consensus that we must all make a difference — now!

The Arboretum has been contributing to a healthy environment for years, simply by being a biologically rich, green oasis. We have also delivered classes, lectures, and workshops, which are designed to help each of us conserve water, use fewer chemicals in our garden, and understand biological systems and issues.

But we cannot wait any longer to take bigger, bolder steps to address local and global issues including climate warming, the importance of fresh water and its wise use, and the protection of unique habitats and rare plants.

The Arboretum has a history of involvement with conservation activities. These range from managing one of the last groves of Engelmann Oak in the United States and leading the Los Angeles Environmental Education Fair (LAEEF) 28 years. Additionally, we have been involved in locating and mapping rare plants, growing endangered species, and re-introducing butterfly larvae food plants. But all this has occurred only sporadically due to limited resources of staff and money.

I am pleased to announce that the opening of the Madagascar Spiny Forest exhibit has given us the opportunity to initiate a program to ensure The Arboretum grows into a major force in local, national, and international plant and habitat conservation activities. We have initiated The Arboretum's Plant Conservation Fund to provide the resources necessary to deliver on our commitment of ensuring unique plants and habitats exist for the enjoyment, economic benefit, and inspiration of people worldwide.

Our Plant Conservation Fund supports research, education programs, habitat restoration, and other conservation activities from California to the far reaches of the earth.

Examples of conservation programs in which The Arboretum is involved, or soon will be include:

Restoration of rare lakeside and riverine vegetation in California.

Growing and distributing plants that support local, rare butterflies.

Support of the research and conservation efforts of the recently discovered Wollemi pine in Australia

Graduate student research on the destructive uses and alternatives for local people in the Spiny Forests of Madagascar.

I encourage everyone to get behind the conservation of water, energy, and materials in your house and yard, as well as supporting specific conservation programs through The Arboretum's Plant Conservation Fund

Together, we can make a difference.



PLANTS & PEOPLE

Jim Bauml, Ph. D., Senior Biologist

WollemiTM Pines are Coming

the Wollemi National Park in northeastern
Australia returned with a dried leafy branch
of a tree he did not recognize. It was later
determined to be a new species, one presumed
extinct for 90 million years. Botanists named
it Wollemia nobilis, in 1995, 'Wollemia for the
forest where it was found and 'nobilis to honor
David Noble, the New South Wales Parks and
Wildlife Officer who first stumbled on the trees.
"Wollemi" is an Aboriginal word that translates
to "look around you, keep your eyes open and
watch out".

Only 100 mature trees have been found to date. The largest is about 40m or over 130 feet tall. This species tends to grow new stems from the base, so the largest trunks we see today may not be the originals, and these trees may be quite old. The WollemiTM pines belongs to the Araucaria family (Araucariaceae) and is most closely related to species of Araucaria such as the Kauri, Norfolk Island, Hoop, Bunya and Monkey Puzzle trees.

After its discovery, conservation immediately became a top priority. Secrecy has helped protect the few known sites for this rare tree. The Australian government developed a plan to produce a huge number of plants by tissue

culture from the original living samples and seedlings from these sites. The idea is to make many thousands of these young trees available on the world market and to use the proceeds to help further protect the WollemiTM pine, its habitat, and other endangered Australian plants. As you can see, the name is trademarked; only one nursery with a contract with the Australian Government is allowed to produce trees for sale.

The first release was in Australia. Plants are slated to be released in the US through the National Geographic Society. Their web site indicates that trees can be preordered now for shipping in April, 2007.

The Wollemi™ pine has proven quite adaptable to a variety of growing conditions. It has been show to tolerate temperatures from 10 to 113 degrees Fahrenheit. Trees are fast-growing, and they prefer acid soils.

The Arboretum is on the waiting list to acquire specimens of this extraordinary tree. We look forward to growing and interpreting this living fossil for our visitors. More information can be found at www.wollemipine.com.





Rosa Minutifolia

BLOOM

Timothy R. Phillips, Superintendent

Dainty, Delicate, Delightful: Plant Conservation in Action

Otay Mesa in San Diego County is the only place in the United States where Rosa minutifolia used to grow. It is endemic to a narrow stretch of land from San Diego to Northern Baja, but was extirpated from the United States site by construction. The Arboretum rescued ten plants and six are now living in the Arboretum's Desert Display Garden. All genetic materials for the remaining plants in the United States reside at The Arboretum, other public gardens or with a few dedicated gardeners. There are still wild populations in Mexico, although they too are threatened by commercial development. This lovely, little rose blooms in January and February, but come see it now as it adapts naturally with its minute leaves to our summer without rain.

GIGABYTE GARDENING

Terrabyte 2.0

Sunday, August 26; 5-10 pm \$10, \$5 students, Children enter free

This outdoor event combines art, nature, and emerging technology to illustrate the influence of our natural world in art and technology. Enjoy experimental music performances, multimedia installations, garden tours and interactive activities suitable for children of all ages. Food and beverages will be available for sale. Proceeds of this event support The Arboretum's Plant Conservation Fund.

Call 626.821.3232 for more information or go to www.arboretum.org

The Intelligent Use of LaterTM Film Festival
Oct. 13, 6:30 pm

The Intelligent to of Water Film Competition sponsored by Rain Bird Comporation seeks short films that focus on the topic of water conservation. Films should explore approaches and ideas to intelligently manage and explore the earth's most precious resource. Submit your entry by August 15, 2007. Finalists will be presented and awarded prizes at the screening event at The Arboretum on October 16. For information and guidelines visit www.iuowfilm.com



CALEIUDAR APRIL- JUNE, 2007

MAKE A DATE
Ongoing Activities

ARBORETUM LIBRARY

Tuesday-Friday; 8am-5.15pm Every other Saturday; 8.30am-5pm

SANTA ANITA DEPOT

Tuesday & Wednesday; 10am-4pm Sundays; 1-4pm

FAMILY BIRD WALK

1st Saturday of the month, 8am

FAMILY PICNIC SUNDAYS

3rd Sunday of the month

ARBORETUM BOOKWORMS

3rd Sunday of the month; 2-3pm (ages 3-8)

3rd Wednesday of the month; 10-11am(pre-school)

FREE ADMISSION DAY

3rd Tuesday of the month

WALKING TOURS

Daily (call ahead for schedule 526.821.3212)

PLANT AHEAD

Events and Exhibitions

CALPHIL FESTIVAL ON THE GREEN July 14 Sept. 8, Cal. 626.300.8200

CHECKER CAR CLUB SHOW

TERRABYTE 2.0

Aug 26 5 Form

Of \$5 Students/ Children enter free



1 d sat CalPhil Festival on the Green: Music Theatre. Call 626.300.8200

Arboretum Bookworms: "Keep Outta My arden!"; storytelling & craft; Ages 3-8; 2iom: FREE with Arboretum admission

Botanical Watercolor Workshop; 16 8 Mondays: June 25-August 13

Tai Chi with Master Mo Chi Sasian Yau; 8 Mondays, July 9-August 27

Arboretum Bookworms: "Keep Outta Ny Laden!", storytelling & craft, preschool, it Ham: FREE with Arboretum admission

TO The Music Tree; Ages 0-5; 6 Thursdays: July 19-August 23

Ikebana with Reiko Kawamura; 8 Fridays: June 1-July 20

SAT

Z SUN

Botanical Watercolor Workshop; 8 Mondays: June 25-August 13

Tai Chi with Master Mo Chi Sasian Yau; 8 Mondays, July 9-August 27

TUE

WED The Music Tree;

August 23

New Member Tours

10-11am and 11am-12pm Calphil Festival on the Green:

Carmen on Broadway Call 626 300 8200 Checker Car Club Show; 10am-3pm

Hew Member Tours 10-11am and 11am-12mm

Botanical Watercolor Workshop; 8 Mondays: June 25-August 13 Tai Chi with Master Mo Chi Sasian Yau;

8 Mondays, July 9-August 27

3 | Lie Richard & E. M. H. Blam, For Registration, C. THE LAND 2 MILE

KidsArt; 9:30-10:30am; For Registration, Call 818.248.2764 16 THU The Music Tree; Ages 0-5; 6

Thursdays: July 19-August 23 FRI

18 SAT Cactus Show & Sale; 9am-5pm Cactus Show & Sale; 9am-5pm

Arboretum Bookworms: "Where do Seeds Go?"; storytelling & craft; Ages 3-8. 2-3pm; FREE with Arboretum admission

Botanical Watercolor Workshop; 8 Mondays: August 20-October 8; 9:30-11:30; \$35/\$42 non-members; self-20 MON directed workshop

> Tai Chi with Master Mo Chi Sasian Yau; 8 Mondays, July 9-August 27

21 TUE KidsArt; 9:30-10:30am; For Registration, Call 818.248.2764 2 2 WED

KidsArt; 9:30-10:30am; For Registration, Call 818.248.2764

The Music Tree; Ages 0-5; 6 Thursdays: July 19-August 23

CalPhil Festival on the Green: I Got Rhythm. Call 626,300.8200

New Member Tours 10-11am and 11am-12pm

Summer Family Garden Art Workshop; 2-4pm; \$45/family; \$50/family nonmembers

26 New Member Tours 10-11am and 11am-1pm Terrabyte 2.0

5-10 pm

Botanical Watercolor Workshop; 8 Mondays: August 20-October 8 Tai Chi with Master Mo Chi Sasian Yau; 8

Mondays, July 9-August 27 28 TUE KidsArt; 9:30-10:30am; For Registration.

Call 818.248.2764

29 WED KidsArt; 9:30-10:30am; For Registration, Call 818.248.2764



Beginning: 6:30-7:30; Intermediate: 7:30-

8:30pm; \$48 members/\$52 non-members

KidsArt; 12:00-1:00pm; 1:15-2:15pm; For

Treasures"; storytelling & craft; Ages 3-8; 2-16 SUN 3pm; FREE with Arboretum admission

Annual Members' Meeting and Picnic; 5pm

Botanical Watercolor Workshop; 8 Mondays: August 20-October 8 Tai Chi with Master Mo Chi Sasian Yau; 8 Mondays, September 10-October 29 18 TUE

Arboretum Bookworms: "African 19 WED Treasures"; storytelling & craft; preschool;

10-11am; FREE with Arboretum admission Seminars with Lili Singer: The Balancing Act of Sustainable Design with Pamela Berstler of Flower to the People; 9:30am-

Noon; \$20 per class; pay at the door The Music Tree; Ages 0-5; 6 Thursdays:

September 20-November 29 Compulsive Gardeners - Class is full

Ikebana with Reiko Kawamura; 8 Fridays: Sept. 21-Nov. 16 (no class 9/28); 9:30-11: 30am; \$65/\$80 non-members with \$24 materials fee

KidsArt; 12:00-1:00pm; 1:15-2:15pm; For Registration, Call 818.248.2764 **23** SUN

Botanical Watercolor Workshop;

8 Mondays: August 20-October 8 Taste Around Arcadia - Arcadia Chamber

10Nof Commerce; 5:30-8pm; call 626.447.2159 for information Tai Chi with Master Mo Chi Sasian Yau; 8

Mondays, September 10-October 29 **25** TUE

26 WED

Seminars with Lili Singer: Field Trip-A Sublime Country Garden, Agoura Hills, Designed by Flower to the

People; 9:30am-Noon; \$20 per class; reservations required.

The Music Tree; Ages 0-5; 6 Thursdays: September 20-November 29

Compulsive Gardeners - Class is full

New Member Tours 10-11am and 11am-12pm

KidsArt; 12:00-1:00pm; 1:15-2:15pm; For Registration, Call 818.248.2764

New Member Tours 10-11am and 11am-12pm



KIDS IN NATURE

Ongoing Youth Education Programs Summer Family Workshops

Bookworms

Storytelling and hands-on activity for kids (ages 3-8) Every 3rd Sunday and Wednesday of the month Sunday 2-3pm Wednesday 10-11am

Jul. 15 and 18: "Keep Outta My Garden!" Aug. 15 and 19: Where do seeds go? Sept. 16 and 19: African Treasures Free with admission

Garden Sprouts*

Saturday kids gardening club; 9-11am Every 1st and 3rd Saturday of the month October - June \$10 members/\$12 non-members

Family Adventures*

Saturday afternoon nature expeditions 2-4pm Jul. 7: Make a Patriotic Garden Aug. 4: Nature Printing Sept. 1: Amazing Meat Eating Plants \$15 members/\$20 non-members

Shake, Bake & Sizzle*

Family cooking classes 1st Sunday of the month;2pm Jul. 1, Aug. 5, Sep. 2pm \$25 members/\$30 non-members per family

KidsArt*

Tues & Thurs, July 31-August 30, 9:30-10:30am Saturdays, September 15-November 10; 12:00-1:00pm; 1:15-2:15pm

The Music Tree; Ages 0-5*

10 Thursdays; July 19-August 23

Parents and children learn through playful, hands-on experiences in a warm, loving environment. Nature-themed music, poetry, dramatic play and storytelling support the preschooler's rapidly expanding language and music skills. Outdoor nature exploration is integrated into the music curriculum. \$125 members/ \$135 non-members

Family Basket & Storytelling Workshop*

Sunday, August 12; 2-4 pm

Create a "community basket" using weaving and twining techniques of yarn, grasses, recycled fibers and palm inflorescences. You and your family will weave a beautiful basket to take home and cherish. Storytelling is an important aspect of this collaborative work. \$45 members/ \$50 non- members per family

Family Garden Art Workshop*

Sunday, August 26; 2-4 pm

Have a family art event and make a lasting piece of garden art using melted marbles, stained glass, pebbles and dishes and tiles to create a one of a kind outdoor art piece. Learn techniques to create stepping stones, garden walks, picture frames and much more. \$45 members/ \$50 non-members per family

GET INVOLVED

There are so many ways to get involved, support your garden, learn, and have fun. Here are just a few ways:

Become a Volunteer Have lunch at the Peacock Cafe Take advantage of your membership benefits Tell a friend about The Arboretum Visit The Arboretum Library Call the Plant Information Hotline Enroll yourself, your children or the whole family in a class Visit the Garden & Gift Shop and buy plants Support the Annual Giving Campaign Attend a special event

We appreciate your support and encourage you to visit often.

CONNECT

New Member Tours

July 28 & 29 | August 25 & 26 | September 29 & 30 10-11am and 11am-12pm Call 626.821.3233 to RSVP

Discover The Arboretum's treasures during the New Member Tours held every 3rd weekend of the month. Reservations are required.

Annual Members' Meeting and Picnic September 16 | 5 pm

Meet The Arboretum Staff and other Arboretum Members and learn how your support helps The Arboretum grow. Bring a blanket and a picnic and share in the fun. Friends and family are welcome and encouraged to attend.



^{*}Pre-Registration Required. Call 626.821.4623 to register

MEET AND GREET

Mark Anderson, Volunteer Extraordinaire



Mark Anderson

Among the orchids and dahlias near the Tropical and Orchid Greenhouses on any given weekday you will most likely find Mark Anderson weeding plants, watering or sharing a comical moment with volunteers and visitors. Mark just celebrated his 27th year of volunteer service to The Arboretum and is proud to be part of the team of people that care for the 8,000 plus orchids found in The Arboretum's vast collection.

Julie Norman, Orchid Curator and David Okihara, plant care assistant, along with numerous other volunteers work daily in caring for these beautiful, rare and endangered species. Julie Norman ,who herself has worked at The Arboretum for 20 years, works with him daily and says "his mother was right, he is a prince, he takes initiative and really enjoys working with other volunteers." Mark is looking forward to many more years of service and really enjoys being part of The Arboretum family.



Mark Anderson, Julie Norman, and David Okihara

GRAPEVINE

Five Conservation Tips for the Home and Garden

1. Grow plants adapted to California or other Mediterranean climates

These species use less water, withstand heat well, and require less pesticide, fungicide, and fertilizers. Call our plant information line or visit the Arboretum Library for recommendations and more information.

2. Switch from regular incandescent bulbs to low energy "compact" fluorescents

These bulbs last longer, use a fraction of the energy, do not get as hot, and save you money. Saving energy reduces carbon loading in our atmosphere, saves water, and reduces the demand for coal and oil.

3. Reduce the use of plastic wraps, bags, and packaging.

We forget all plastics are petroleum-based. Think before buying pre-packaged goods and foods. Plastic can last for hundreds of years in landfills or landscape. Recycle all these products and consider bringing your own cloth bag.

4. Walk or ride a bike when possible.

Start by walking or riding a bike to the store or a neighbor's once a week. Soon the fun, health, and social benefits will encourage you to stay out of the car a little more often.

5. Have fun with your family and friends outdoors.

Your visit to The Arboretum is a great start. Be a regular visitor here and other outdoor locations. Studies show great health benefits to being active outdoors and that children who have outdoor experiences are more likely to be involved and care about environmental issues as adults.

For more outdoor activities check www.arboretum.org and www.lacountyparks.org.



DISCOVERY TRAILS How Do You Save A Dragon?

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any cultures have stories of dragons. Hercules killed a dragon in the Hesperides, Pliny has a basilik and an elephant fighting. Brahma fights with Shiva. The Mediterranean versions of these stories lead back to the Canary Islands and Soqotra. What the Mediterraneans were after was the dragon's red blood. This blood had many uses, both medicinally and all the things you could think to do with a resin, including coating violins and melting it into heated marble to color it red.

Some of the Canary Island plant palette is ubiquitous in our urban landscape. How different would Southern California appear without Canary Island pines (Pinus canariensis) or Canary Island date palms (Phoenix canariensis). Less conspicuous is their dragon. Dragon tree or dragon's blood tree (Dracaena draco) is less common as a landscape plant, but is considered the iconic plant of the Canary Islands. The indigenous peoples, the Guanaches, considered them sacred and transferred their government from king to king at the site of the union of their gods at the largest tree. They also embalmed their dead with the "blood."

The Arboretum has a herd of dragons. One of our earliest acquisitions came from the San Diego Zoo in 1979. There are two along the Aloe Trail, but the bulk of our dragons are in our future Canary Island section to the far west of the African section on west side of the road. We have them here to help the effort to save the dragons and allow our visitors to see some really wonderful plant forms.

Now back to the blood. How do you get blood from a dragon that turns out to be a plant rather than an animal? The most desirable "blood" comes from where the flower stalk attaches to the trunk of the tree. This exudes in a natural manner in the shape of "tears". It is collected after rains. The more common way to harvest the blood is to put a gash at the bottom of the trunk of the tree and collect it there. The name "dragon's blood" is one that makes anyone pay attention. It turns out the name is so popular that other plants are now considered sources of "dragon's blood" even though they aren't even a similar kind of plant. In research that has been done on the products, the ingredients are often confused.

How do you save a dragon? Plant conservation is like animal conservation in many ways. The best way is to save habitat. The Canary Islands do have a series of national parks that are intended for that purpose, but unfettered open spaces on the islands are now few and far between, so the Canary Island dragon is considered vulnerable to extinction in its native habitat. Unlike rare animals, rare plants can sometimes be very easy to propagate. Their propagules (things such as seeds or cuttings) are easy to transport and the resulting plants don't need the amount of care an animal would. Because of this and our climate being somewhat similar to the Canary Islands, even the home owner can save a dragon. It's still a little bit like watching a caterpillar live its life in a jar. Plant conservation issues can be very complex. Arboreta and botanic gardens are just one important part of the conservation puzzle. Come visit our dragons!

Items in the Arboretum Library used for this article:

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MAKING A DIFFERENCE

Lynette Proler

style urn in Italian marble from Proler Garden Antiques, Inc.

Owner, Lynette Proler is America's leading importer of 17th through
19th century garden antiques and landscape ornaments and has
lectured on these topics as part of the Arboretum's educational
program.



Ms Proler selected the urn to be the focal point of the Grace Kallam Perennial Garden and stated her interest to assist in the future with securing donations of garden antiques for select locations on the grounds.

Proler Garden Antiques, Inc. provides European garden antiques to landscape architects and designers as well as for individual collectors. Ms. Proler makes several buying trips each year to England and Europe. Her objects and sculpture are represented in important private estates and cultural institutions throughout this country and Europe. She lectures extensively to cultural organizations on European garden antiques.



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Bill Fink
Christine & Brian Foster
Sally Williams

Australian Children's Discovery Node Amphitheatre The Georgina Fredrick Children's Foundation

Bequests/Gift Planning
Connne Abel Estate Trust

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The Casner Family Foundation
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Memorial Tree Program

Mens Garden Club of Los Angeles

In memory of Hildegard Michel Mrs. Renate I. Crump
Marianne Goldberg

In memory of Edward & Luella Nitsch Including Memorial Tree Lynne Eocice

In memory of Beverly J. Short
Including Memorial Tree
Susan Brun
B. Jeanne & Erich Schnitzler
Linda Short
Carolyn & Rainer Spanier
Lawrie & Fred Worsch

In memory of Emil Sluiman
Including Memorial Tree
Suzame & Glen Chappell
Debra Daniels
Daniel Grifka
Caroline Hidalgo
Bernadette & L.E. Hoyland
Janith M. Hurff
Grace T. Leonard
Mary & Greg Phillips
Nancy S. Ramirez
Jeanne Sluiman
Kathleen Waln & Robert Gilbert

In memory of Carolyn A. Woodrow Including Memorial Bench

Community Partners

California Cactus Center
Gold Coast Daylilies
John Meyer Designs
Mo Villa Productions
New Metro Tile Co.
Paramount Pictures
San Gabriel Nursery & Florist
Valley Monument Company

In-Kind Donations
Eric Anderson
Subhana Ansan
Nancy Bailey
Eric Duhoux
Prudence Marion Durkee
Dianne Flood
Ed Garcia
Christie & Ben Garrett
Kay Hawkinson



DEPARTMENT CONTACTS

Office of the CEO	626.821.3250
Superintendent of Grounds	626.821.3234
Education	626.821.4623
Plant Information	626.821.3239
Schools Tours	626.821.3216
Group Rates	626.821.3208
Communications	626.821.3232
Development	626.821.3237
Memorials	626.821.3237
Membership	626.821.3233
Volunteers	626.821.5897
Filming/Commercial Shoots	626.821.3204
Weddings/Photography	626.821.3211
Peacock Cafe	626.447.0641
Garden & Gift Shop	626.447.8751
Library	626.821.3213

Open daily from 9am-5pm; admission closes at 4:30 pm.

Free parking.

Picnic area is available outside of the main entrance.

626.821.3222 www.arboretum.org

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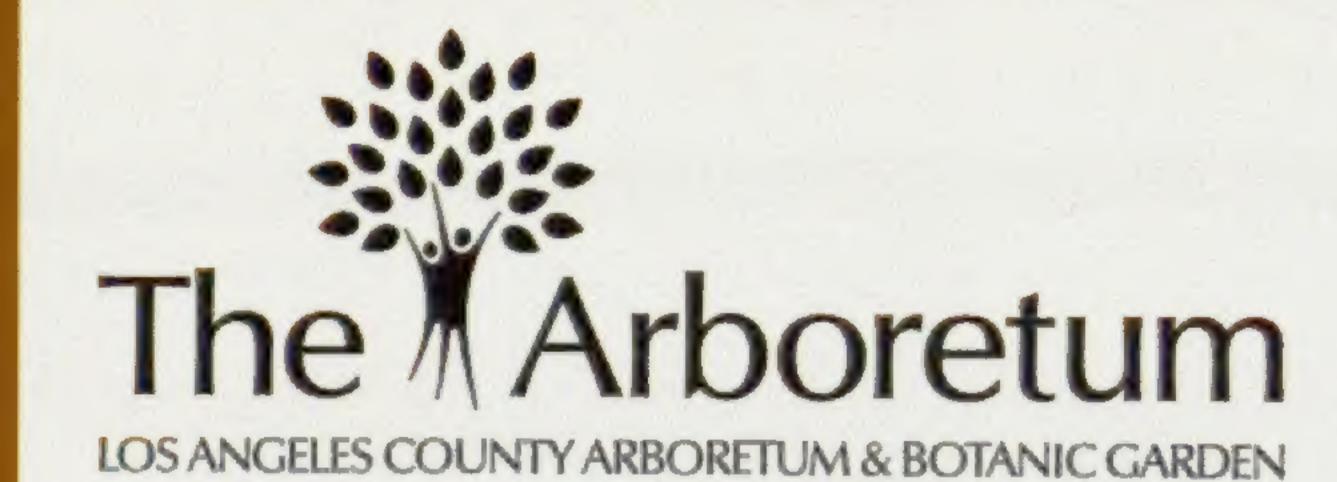
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The Intelligent Use of Water Marker Film Festival

Oct. 13; 6:30 pm

For more information visit www.iuowfilm.com





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